



ALEXEI CONDURACHI

MSc in Mathematics, with a focus on Financial Models

📍 København, Denmark

LinkedIn alexei-condurachi

Github alexeicondurachi.github.io

SKILLS

- Python
- Matlab
- C++
- R
- Java
- LaTeX
- Office
- Data Visualization
- Data Analysis
- Pattern Recognition

STRENGTHS

- Analytical Mindset
- Versatile
- Independent
- Curious
- Team Player
- Outgoing
- Responsible

LANGUAGES

- English: Proficient / C1
- Italian: Native
- Romanian: Native

PASSIONS

- Sports
- Photography
- Video Editing
- Chess
- Filming
- Automotive
- Design
- Engineering
- Quantum information

ABOUT ME

I have always had a passion for Computer Science and related fields, but due to my interest in Finance and my insatiable drive for problem solving I have decided to undertake a BSc and MSc in Mathematics. This helped me develop a versatile *forma mentis*: I am capable of destructuring problems and assignments in several sub problems that then I can relate to abstract structures in order to solve them. Financial modelling and quantitative analysis are my primary areas of interest.

EDUCATION

MSc in Mathematics | Københavns Universitet

📅 09/2020 - 06/2022

📍 København, Denmark

- **Thesis:** *Analysis of Liquidity Provision within Uniswap V2.*
I built a digital twin of Uniswap V2 and used it to do various experiments to see how different factors affect Liquidity Provider gains. To best replicate real-life patterns and price changes, simulations are based on genuine data acquired directly from Uniswap.
- **Coursework:** Data-Driven Financial Models, Finance 2: Dynamic Portfolio, Advanced Probability Theory 1&2, Applied Probability, Topics in Non-Life Insurance

BSc in Mathematics | Università di PARMA

📅 09/2017 - 09/2020

📍 Parma, Italia

- **Thesis:** Numerical Solutions of Second Kind Fredholm Integral Equations with Kulkarni's Method.
- **Coursework:** Financial Mathematics, Linear and Statistical Optimization, Numerical Analysis, Models of Physical Mathematics, Fundamentals of Programming A&B.

EXPERIENCE

Tutor

📅 09/2018 - 06/2020

📍 Parma, Italia

- Tutored and supported a pupil with specific developmental disorders of scholastic skills with study management and study organization. Workload: 6 hours per week.

PROJECTS

Financial Modeling |

Analysis of optimal portfolio choice based on historical data retrieved from Yahoo! Finance's database and implementation of strategies to react to prices' fluctuations.

Swine Influenza |

I have been first introduced to mathematical modeling by studying population growth's models. I have learnt how to make use of my knowledge in mathematical analysis and how to apply theoretical results to real life's scenarios.